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NOTICE OF ALLOWANCE AND FEE(S) DUE

23413

7590

09/10/2009

CANTOR COLBURN, LLP 20 Church Street 22nd Floor Hartford, CT 06103 EXAMINER

BLOUNT, ERIC

ART UNIT PAPER NUMBER

2612

DATE MAILED: 09/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,354	05/08/2006	Jack Fridthjof	GRP0136US	6727

TITLE OF INVENTION: DEVICE FOR DETECTION OF SURFACE CONDITION DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further adicated unless correcte anintenance fee notifical	correspondence including below or directed oth tions.	g the Patent, advance or terwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	naintenance fees w pondence address;	rill be and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE	ence address as ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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20 Church Street 22nd Floor	t			addre	essed to the Mail	Stop	ISSUE FEE address 1) 273-2885, on the da	above, or	being facsimile
Hartford, CT 06	103			trans	milited to the USP.	10 (37	1) 2/3-2883, on the da	ne marcate	(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRM	MATION NO.
10/549,354	05/08/2006	L	Jack Fridthjof				GRP0136US	(6727
ITLE OF INVENTION	: DEVICE FOR DETEC	TION OF SURFACE CC	ONDITION DATA						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	Dz	ATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055		12	2/10/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	;					
BLOUN	T, ERIC	2612	340-580000						
. Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The field below, no assignee eletion of this form is NOT	data will appear on th	he pa g an a	tent. If an assigned			cument ha	s been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity	Government
a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.						
Advance Order - # of Copies			☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
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10/549,354	05/08/2006	Jack Fridthjof	GRP0136US	6727	
23413	7590 09/10/2009		EXAM	INER	
CANTOR COL	BURN, LLP	BLOUNT, ERIC			
20 Church Street			ART UNIT	PAPER NUMBER	
22nd Floor Hartford, CT 061	03		2612 DATE MAILED: 09/10/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 366 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 366 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/510 251	EDIDTILIOE IACK				
Notice of Allowability	10/549,354 Examiner	FRIDTHJOF, JACK Art Unit				
	EDIO M. DI OUNIT					
	ERIC M. BLOUNT	2612				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS				
1. \boxtimes This communication is responsive to <u>RCE filed on 8/13/200</u>	<u>09</u> .					
2. The allowed claim(s) is/are <u>26-39,43,44 and 47-57</u> .						
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have	been received. been received in Application	on No				
3. Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Ir	oformal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),				
3. Information Disclosure Statements (PTO/SB/08),	Paper No. 7.	/Mail Date Amendment/Comment				
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit 8. Examiner's Statement of Reasons for Allowand of Piological Meterial						
of Biological Material	9.	<u> </u>				
/Eric M. Blount/						
Primary Examiner, Art Unit 2612						

Application/Control Number: 10/549,354 Page 2

Art Unit: 2612

Request for Continued Examination

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on August 13, 2009 has been entered.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

As for **claim 26** and all claims depending therefrom, the prior art of record fails to sufficiently describe and/or suggest a sensor device for non-contact detection of conditions of a surface, the sensor device comprising: a light source for emitting light towards the surface; a first detector, a second detector, and a control means for receiving and evaluating the received output from the detectors based on an amount of diffuse reflected and mirror reflected light; the sensor device further comprising: a first linear polarization filter arranged in a path of the light from the light source and to the surface for the polarization of the emitted light; and a second linear polarization filter arranged in a path of the light between said surface and one of the first detector and the second detector.

As for **claim 44** and all claims depending therefrom, the prior art of record fails to sufficiently describe and/or suggest a sensor device for non-contact detection of conditions of a surface, the sensor device comprising: a light source for emitting light towards the surface; a

Art Unit: 2612

output from the detectors based on an amount of diffuse reflected and mirror reflected light; one or more arrangements for detecting conditions of the surface, said arrangements comprising at least one of: an infrared light source for emitting light within the wavelength range of 930 nm to 970 nm towards the surface and an absorption detector; a light source for emitting light towards the surface, a path of the light having an angle in a range of 15 to 70 degrees to the surface normal and a retro-reflection detector arranged for receiving retro-reflected light in said path; a light source for emitting polychromatic light towards the surface and at least two range detectors arranged to detect each a wavelength range of reflection of said emitted light; and a noise sensor for receiving noise from a vehicle traveling along a road and producing an output to the control means accordingly, on which the vehicle the device is arranged.

These along with further limitations presented in the claims render the application allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC M. BLOUNT whose telephone number is (571)272-2973. The examiner can normally be reached on Monday-Thursday 8:00 am - 4:00 pm.

Application/Control Number: 10/549,354 Page 4

Art Unit: 2612

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bejamin C. Lee can be reached on (571) 272-2963. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eric M. Blount Primary Examiner Art Unit 2612

/Eric M. Blount/

Primary Examiner, Art Unit 2612